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4/28/03

No.: 122.1048-CIP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Keishin NAGAOKA, et al.

Serial No. 09/938,303

Group Art Unit: 2675

Confirmation No. 1912

Filed: August 24, 2001

Examiner: Paul A. Bell

For: METHOD AND APPARATUS FOR CONTROLLING THE GRAY SCALE OF PLASMA
DISPLAY DEVICE

AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

RECEIVED

APR 28 2003

Technology Center 2600

Sir:

This is in response to the Office Action mailed February 26, 2003, and having a period for response set to expire on April 26, 2003.

The following amendments and remarks are respectfully submitted. Reconsideration of the claims is respectfully requested.

IN THE ABSTRACT:

The following is an Abstract for the subject application:

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A method of controlling the gray scale of a plasma display device has a forming step of forming a frame for an image by a plurality of subframes each having a different brightness, a setting step of setting the number of sustain emissions of each subframe in an anti-geometrical progression corresponding to the brightness of each subframe, and a displaying step of displaying the image on the plasma display device by a gray scale display having a specific brightness. The number of sustain emission in each subframe is set individually by the each subframe, and this establishes a linear relation between the gray level and the corresponding brightness. Therefore, an enhancement of display quality of the plasma display device can be realized.